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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/628,091	07/28/2003	Igor Gurevich		4254
23419 COOLEY GO	7590 01/12/2007 DWARD KRONISH LLP		EXAMINER	
3000 EL CAMINO REAL			TRAN, DZUNG D	
5 PALO ALTO SQUARE PALO ALTO, CA 94306			ART UNIT	PAPER NUMBER
,			2613	
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SHORTENED STATUTO	RY PERIOD OF RESPONSE	MAIL DATE .	DELIVERY MODE	
3 M(ONTHS	01/12/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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	Application No.	. Applicant(s)		
Office Action 0	10/628,091	GUREVICH ET AL.		
Office Action Summary	Examiner	Art Unit		
The DUAL INC. DATE AND	Dzung D. Tran	2613		
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	ith the correspondence address		
A SHORTENED STATUTORY PERIOD FOR RE WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFI after SIX (6) MONTHS from the mailing date of this communication - If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by st Any reply received by the Office later than three months after the mearned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNI R 1.136(a). In no event, however, may a riod will apply and will expire SIX (6) MOI atute, cause the application to become A	CATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. \$ 133)		
Status				
1)⊠ Responsive to communication(s) filed on <u>3</u>	1 October 2006.			
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3) Since this application is in condition for allo		ters, prosecution as to the merits is		
closed in accordance with the practice und	er <i>Ex parte Quayl</i> e, 1935 C.[). 11, 453 O.G. 213.		
Disposition of Claims				
4)⊠ Claim(s) <u>1-21</u> is/are pending in the applicat	ion.			
4a) Of the above claim(s) 18-21 is/are without	Irawn from consideration.			
5) Claim(s) <u>14-17</u> is/are allowed.				
6)⊠ Claim(s) <u>1-3,8,9,11 and 12</u> is/are rejected.				
7) Claim(s) <u>4-7, 10 and 13</u> is/are objected to.				
8) Claim(s) are subject to restriction an	d/or election requirement.	•		
Application Papers				
9)☐ The specification is objected to by the Exam	niner.			
10)☐ The drawing(s) filed on is/are: a)☐ a	accepted or b) objected to	by the Examiner.		
Applicant may not request that any objection to	the drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).		
Replacement drawing sheet(s) including the cor		• • • • • • • • • • • • • • • • • • • •		
11)☐ The oath or declaration is objected to by the	Examiner. Note the attache	d Office Action or form PTO-152.		
Priority under 35 U.S.C. § 119		·		
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of:		§ 119(a)-(d) or (f).		
1. Certified copies of the priority docum2. Certified copies of the priority docum		Application No		
3. ☐ Copies of the certified copies of the p				
application from the International Bur		received in this National Stage		
* See the attached detailed Office action for a	, ,,,	received.		
	·			
Attachment(s)				
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 	4) Interview S	Summary (PTO-413) s)/Mail Date		
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) 	5) L Notice of I	nformal Patent Application		
Paper No(s)/Mail Date	6) Other:	<u> </u>		

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DETAILED ACTION

Specification

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-3, 8, 9, 11 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nosu US Patent no. 4,244,045.

Regarding claim 1, Nosu discloses in Figure 12, an optical signal multiplexer/demultiplexer for bidirectional transmission and reception of optical signals through individual channels capable of working in a transmitting and receiving modes simultaneously for transmitting and receiving a plurality of optical signals of different wavelengths through each individual channel, said optical signal multiplexer/demultiplexer comprising:

a plurality of optical prisms 81, 82, 83, 84, 85, 86 arranged in series; and an inlet/outlet 100 on one side thereof and a second outlet/inlet 51, 53, 55 on the other side thereof; said optical signal multiplexer/demultiplexer passing one of said optical signals of different wavelengths (i.e., λ1, λ3, λ5) from said inlet/outlet to said outlet/inlet and from said outlet/inlet to said inlet/outlet without substantially affecting said one of said optical signals, while processing the rest of said optical signals of

different wavelengths; said coatings comprising means for conjugation and separation of said optical signals of different wavelengths within said optical prisms.

Nosu does not specifically discloses the optical prism 81, 82, 83, 84, 85, 86 having coatings selective with respect to transmission and reflection of said optical signals of different wavelengths. However, he discloses filters 11, 12, 13, 14, 15 and 16 coupled to the optical prisms for selectively with respect to transmission and reflection of said optical signals of different wavelengths. At the time of the invention was made, it would have been known to one of ordinary skill in the art that the filters 11, 12, 13, 14, 15 and 16 perform the same function as the prism coating that is selectively transmit through and reflect the optical signals of different wavelengths.

Regarding claim 2, Kunikane discloses wherein said plurality of optical prisms are combined into an integral unit and wherein said integral unit together with said inlet/outlet and said outlet/inlet comprise an optical module (see Figure 6).

Regarding claim 3, Kunikane discloses wherein said inlet/outlet comprises a first signal transmission/receiving channel λ1, and said outlet/inlet comprises a second signal transmission/receiving channel λ2 and a third signal transmission/receiving channel λ3, each said signal transmission/receiving channel comprising an optical fiber having an end facing to a respective optical prism and a collimator/focusator (41, 42, 43, 44, 45, 46) on said end of said optical fiber, said collimator/focusator acting as an optical collimator for optical signals transmitted from each optical fiber to a respective optical prism and as an optical focusator transmitted from each optical prism to a

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respective optical fiber, each said optical channel having an optical path for transmitting/receiving optical signals.

Regarding claims 8, 9, 11 and 12, whether a first-wavelength optical signal has a wavelength equal to about 1550 nm, said second-wavelength optical signal has a wavelength equal to about 1480 nm, and said second-wavelength optical signal has a wavelength equal to about 1310 nm or the first-wavelength optical signal has a wavelength equal to about 1550 nm, said second-wavelength optical signal has a wavelength equal to about 1310 nm, and said second-wavelength optical signal has a wavelength equal to about 780 nm is merely an engineering design choices.

- 3. Claims 4-7, 10, 13 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 4. Claims 14-17 are allowed.

Conclusion

- 5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- a. Kanikane et al. U.S. Patent no. 5,005,935. Wavelength Division Multiplexing optical transmission system

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b. Grann et al. U.S. Patent no. 6,212,312. Optical multiplexer/demultiplexer using

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resonant grating filters

c. Hendrix U.S. Patent no. 6,008,920. Multiple channel multiplexer/demultiplexer

devices

6. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Dzung D Tran whose telephone number is (571) 272-

3025. The examiner can normally be reached on 9:00 AM - 7:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Kenneth Vanderpuye, can be reached on (571) 272-3078. The fax phone

number for the organization where this application or proceeding is assigned is 703-

872-9306.

Information regarding the status of an application may be obtained from the

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Dzung Tran 01/06/2006

DZUNG TRAN